OpenManage Integration for VMware vCenter
Quick Installation Guide Version 2.0

Notes, Cautions, and Warnings

NOTE: A NOTE indicates important information that helps you make better use of your computer.

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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1

Quick Start Installation

Installation Introduction

This guide provides step-by-step instructions for the installation and configuration of the OpenManage Integration for VMware vCenter on Dell servers. Once the installation is complete, refer to the *OpenManage Integration for VMware vCenter User's Guide* for information about all aspects of administration including: inventory management, monitoring and alerting, firmware updates, and warranty management.

NOTE: With installations on hosts that are on PowerEdge 12th generation servers, OMSA agent installation is not required. For more information about OMSA, please see the section "Understanding OMSA For 11G Hosts" in the *OpenManage Integration for VMware vCenter User's Guide*. For 9G, 10G and 11G OMSA agent installation is required and has to be installed manually. To more clearly understand PowerEdge 12th generation servers and hosts prior to the 12th generation, see the Release Notes for this release.

Prerequisites

The following information must be met before you start the product installation

- TCP/IP address information to assign to the OpenManage Integration for VMware vCenter virtual appliance.
- A user name and password for the OpenManage Integration for VMware vCenter to access the vCenter server. This should be an administrator role that has all needed permissions. For additional information on the available OpenManage Integration for VMware vCenter roles within vCenter, see the OpenManage Integration for VMware vCenter Configuration chapter of the *User's Guide*.
- Root password for ESX/ESXi host systems.
- User name and password associated with iDRAC Express or Enterprise (only for host systems that include an iDRAC).
- Make sure the vCenter server and vSphere web client are currently running.
- Know the location of the OpenManage Integration for VMware vCenter OVF file.
- Install the OpenManage Integration for VMware vCenter (virtual appliance) on any ESX/ESXi host managed by a vCenter instance that will be registered with the virtual appliance.
- Your VMware vSphere environment must meet virtual appliance, port access, and listening port requirements. In addition, install Adobe Flash player 11.5 or higher on the client system.

NOTE: The virtual appliance functions as a regular virtual machine; any interruptions or shut downs impacts overall functionality of the virtual appliance.

Product Hardware Requirements

The OpenManage Integration for VMware vCenter for VMware vCenter provides full support for 11th and 12th generation Dell servers with iDRAC and limited support for 9th and 10th generation Dell servers. To determine what

generation of Dell Servers you have, refer to the tables in the Release Notes. See the *OpenManage Integration for VMware vCenter Release Notes* for specific hardware support information.

Software Requirements

The vSphere environment must meet virtual appliance, port access, and listening port requirements.

VMware vSphere has both a desktop client and Web client.

Requirements for Web Client

- Supported for vCenter 5.5 or higher.

NOTE: It is recommended that the OpenManage Integration for VMware vCenter and vCenter server are located on the same network.

For specific software requirements, refer to the *OpenManage Integration for VMware vCenter Release Notes*.

OpenManage Integration for VMware vCenter Port Requirements

- 443 (https) and 80 (http) - Administration Console
- 4433 (https) - For auto discovery and handshake
- 162 and 11620 - For SNMP trap listener
- 2049, 4001, 4002, 4003, 4004 - NFS share

Installation and Configuration Overview

The following high-level steps outline the overall installation procedure for the OpenManage Integration for VMware vCenter . These procedures assume that the required hardware is in place and running the required VMware vCenter software. With installations on PowerEdge 12th Generation servers, OMSA agent installation is not required. For more information about OMSA, see the *OpenManage Integration for VMware vCenter User's Guide*.

The following information is an outline of the installation process. To begin the actual installation, see Deploy OVF Using Web Client.

Installation Overview

1. Install the OpenManage Integration for VMware vCenter .
    a. Be sure systems are connected, and vCenter server and vSphere client, and vSphere Web client are running. If you have a SSO environment you need to make sure that the SSO server is up and running.
    b. Deploy the Open Virtualization Format (OVF) file that contains the OpenManage Integration for VMware vCenter using the vSphere client or vSphere Web client.
    c. Upload the license file.
    d. Register the OpenManage Integration for VMware vCenter with vCenter server using the Administration Console.
2. Complete Initial Configuration Wizard.

Deploying the OpenManage Integration for VMware vCenter OVF Using the vSphere Web Client

This procedure assumes that you have downloaded and extracted the product zip file (OpenManage_Integration for VMware vCenter _<version>.<buildnumber>.ZIP) from the Dell website.

NOTE: Thick Provision Eager Zeroed is the disk format recommended during this installation.

To deploy theOpenManage Integration for VMware vCenter OVF using the vSphere Web Client:

1. Locate the OpenManage Integration for VMware vCenter virtual disk that you downloaded and extracted and run **OpenManage Integration for VMware vCenter _<version number>.<build number>.exe**.
2. Agree to the EULA, extract the Quick Installation guide and obtain the OVF file.
3. Copy/move the OVF file to a location accessible to the VMware vSphere host to which you will upload the appliance.
4. Start the VMware vSphere web client.
5. From the VMware vSphere web client, select a host and in the main menu click on **Actions → Deploy OVF Template**. You can also right-click on Host and select **Deploy OVF Template.** The **Deploy OVF Template** wizard is displayed.
6. In the **Select Source** window, do the following:
   a) **URL**: If you want to download the OVF package from internet, select the **URL** radio button.
   b) **Local file**: If you want to select the OVF package from your local system, select the **Local file** radio button and click on **Browse**.

   NOTE: The install can take between 10 to 30 minutes if the OVF package resides on a network share. For the quickest installation, it is recommended that you host the OVF on a local drive.
7. Click **Next.** The **Review Details** window is displayed.
8. The following information is displayed in the **Review Details** window:
   a) **Product**: The OVF template name is displayed.
   b) **Version**: The version of the OVF template is displayed.
   c) **Vendor**: The vendor name is displayed.
   d) **Publisher**: The publisher details are displayed.
   e) **Download Size**: The actual size of the OVF template in Gigabytes.
   f) **Size on Disk**: Details of thick and thin provisioned details are displayed.
   g) **Description**: You can view the comments.
9. Click **Next**. The **Select Name and Folder** window is displayed.
10. In the **Select Name and Folder** window, do the following:
    a. In the **Name** text box, enter the name of the template. This name can contain up to 80 characters.
    b. In the **Select a folder or datacenter** list, select a location to deploy the template.
11. Click **Next.** The **Select Storage** window is displayed.
12. In the **Select Storage** window, do the following:
    a) From the **Select Virtual Disk Format** drop-down list, select either Thick Provision (lazy Zeroed), Thick Provision (Eager zeroed), or Thin Provision to store the virtual disk. It is recommended that you select Thick Provision (lazy Zeroed).
    b) From the **VM Storage Policy** drop-down list, select one of the policies.
13. Click **Next**. The **Setup Networks** window is displayed.
14. The **Setup Networks** window is displayed which contains details about the source and destination networks. Click **Next**.
15. In the **Ready to Complete** window, review the selected options for the OVF deployment task and click **Finish**. The deployment job runs and provides a completion status window where you can track job progress.

Registering OpenManage Integration for VMware vCenter and Importing The License File

This procedure assumes that you have received the licenses in the form of an e-mail attachment from **download_software@dell.com**. If you have more than one license, you can add the licenses one after another. The license file is available as an XML format file.

1. From the vSphere web client, select **Home** → **Hosts and Clusters** , then in the left panel, locate the OpenManage Integration just deployed, and then click **Power on the virtual machine**. During Deployment if you select the **Power on after Deployment** check box, the virtual machine will be powered on automatically after deployment.
2. Click the **Console** tab in the main VMware vCenter window to initiate the Administration Console.
3. Allow the OpenManage Integration for VMware vCenter to finish booting up and then enter the user name for the administrator (the default is Admin), and set a password.
4. Configure the OpenManage Integration for VMware vCenter network and time zone information.

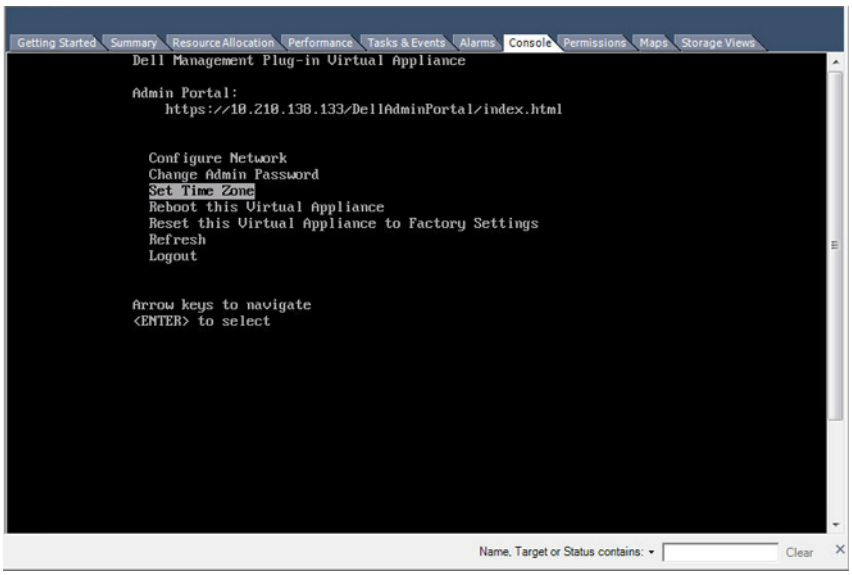

Figure 1. Console tab

5. To open the Administration Console for the product, open a Web browser and type the appliance's IP address or hostname. The IP address is the IP address of the appliance VM and not the ESXi host IP address. the Administration Console can be accessed using the URL mentioned at the top of the console.

   For example: https://10.210.126.120 or https://myesxihost.

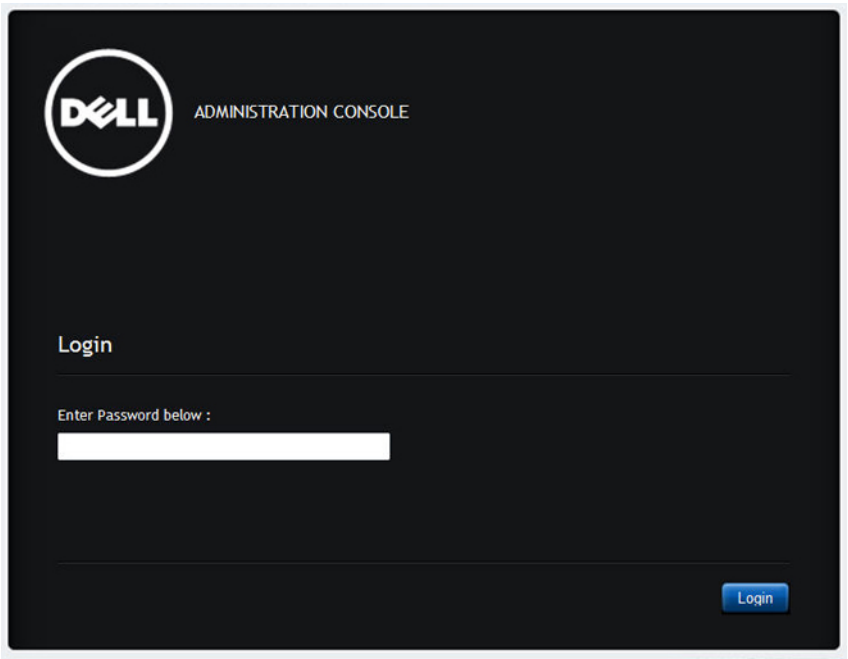

Figure 2. Administration Console

6. In the **Administration Console** login window, enter the password, and then click **Login**.

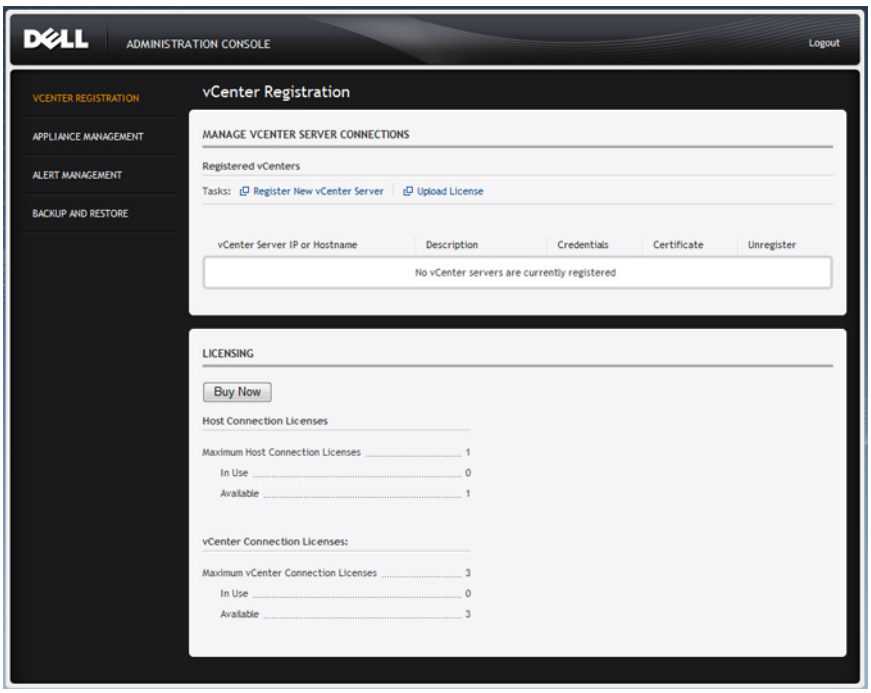

Figure 3. vCenter Registration Window from within the Administration Console

7. In the **vCenter Registration** window, click **Register New vCenter Server**.
8. On the **Register New vCenter Server** window, do the following:

a) Under **vCenter Name**, in the **vCenter Server IP or Hostname** text box, enter the server IP or hostname and then in the **Description** text box, enter the optional description.
b) Under **Admin User Account**, in the **Admin User Name** text box, enter the Admin user name. Enter the username as domain\user or domain/user or user@domain. The Admin user account is used by the OpenManage Integration for vCenter administration.
c) In the **Password** text box, enter the password.
d) In the **Verify Password** text box, enter the password again.

9. Click **Register**.
10. Do one of the following:

    – If you are using theOpenManage Integration for VMware vCenter trial version, skip to step 12.

    – If you are using the full product version, the license file will be e-mailed to you, and you must import this license to your virtual appliance. To import the license file, click **Upload License.**

11. On the **Upload License** window, click the **Browse** button to navigate to the license file. Click **Upload** to import the license file.

    NOTE: If the license file is modified or edited in any way, the license file will not work and you must send an e-mail with the original order number to **download_software@dell.com**. For any license file support, e-mail to **download_software@dell.com** with your original order number. The license XML file is used in this procedure and it does not come with a hard coded file name.

12. Once the OpenManage Integration for VMware vCenter is registered, the OpenManage Integration icon displays under the Administration category of Web Client home page

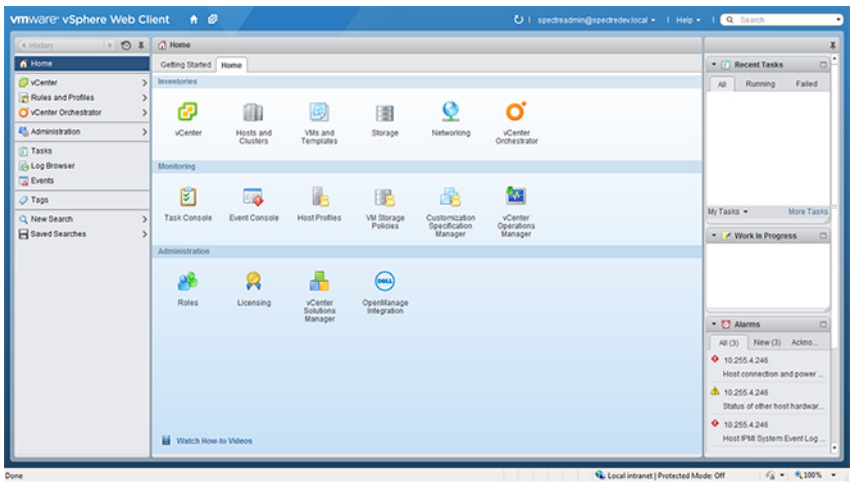

Figure 4. The OpenManage Integration for VMware vCenter Successfully Added to vCenter

Installation Verification

The following steps verify that the OpenManage Integration for VMware vCenter installation was successful:

1. Close any vSphere Client windows and open a new vSphere Web client.
2. Confirm that the OpenManage Integration icon appears inside vSphere Web Client.
3. Check that vCenter can communicate with the OpenManage Integration for VMware vCenter by attempting a ping command from the vCenter server to the virtual appliance IP address or hostname.
4. In **vSphere Web Client**, click **Plug-ins** → **Managed Plug-ins.** In the **Plug-in Manager** window verify the OpenManage Integration for VMware vCenter is installed and enabled.

Migration Path to migrate from 1.6/1.7 to 2.0

OpenManage Integration for VMware vCenter version 2.0 is an OVF release only. There is no RPM update path from the older versions to this version. You can migrate from older version (1.6 or 1.7) to the version 2.0 release using the Backup and Restore path. Also, the migration path is only supported from version 1.6 and 1.7. If you are at a lower version than 1.6, you will have to upgrade your appliance to the supported version before you perform the migration to OpenManage Integration for VMware vCenter version 2.0.

Do the following to migrate from older version to the OpenManage Integration for VMware vCenter 2.0 version:

1. Take a Backup of the database for the older (v1.6 / 1.7)release. For more information, See, **OpenManage Integration for VMWare vCenter version 2.0 User's Guide.**
2. Power off the older appliance from the vCenter.

   NOTE:

   Do not unregister the Plug-in from the vCenter. Unregistering the plug-in from the vCenter will remove all the Alarms registered on the vCenter by the plug-in and remove all the customizing performed on the alarms like actions and so on, on the vCenter. For more information, see the section **How to recover if I have unregistered the older plugin after the backup** in this guide if you have already unregistered the Plug-ins after the backup.
3. Deploy the new OpenManage Integration version 2.0 OVF. For more information, see the section **Deploying the OpenManage Integration for VMware vCenter OVF Using the vSphere Web Client** in this guide to deploy the OVF.
4. Power on the OpenManage Integration version 2.0 appliance.
5. Setup the network, time zone and so on to the appliance. It is recommended that the new OpenManage Integration version 2.0 appliance has the same IP address as the old appliance. To setup the network details, see the section, **Registering OpenManage Integration for VMware vCenter And Importing The License File** in this guide.
6. Restore the database to the new appliance. For more information, see the section, **Restoring The Database From A Backup** in the **OpenManage Integration for VMWare vCenter Version 2.0 User Guide**.
7. Upload the new license file. For more information, see the section, **Registering OpenManage Integration for VMware vCenter And Importing The License File** in guide.
8. Verify the appliance. For more information, see the section **Installation Verification** in this guide to ensure the database migration is successful.
9. Run the Inventory on all the registered vCenters.

   NOTE:

   It is recommended that you run the inventory on all the hosts managed by the plug-in again after the upgrade. For more information, see the section **Running Inventory Jobs** for steps to run the inventory on demand.

   If the IP address of the new OpenManage Integration version 2.0 appliance has changed from that of the old appliance, the trap destination for the SNMP traps must be configured to point to the new appliance. For 12G servers, this will be fixed by running the Inventory on these hosts. For all 11G or lower generation hosts that were earlier complaint, this IP change will show up as non-complaint and will require configuring OMSA. For more information, see the section, **Running the Fix Non-Compliant VSphere hosts Wizard** to fix the host compliance in the **OpenManage Integration for VMWare vCenter Version 2.0 User Guide**.

How to recover if I have unregistered the older plugin after the backup

If you have unregistered the plug-ins after taking backup of the database of the older version, perform the following steps before proceeding with the migration.

NOTE: Unregistering the plug-in has removed all the customizing that was done on the registered alarms by the plug-in. The following steps will not be able to restore the customizing, however, it will re-register the alarms in the default state.

1. Perform the steps 3-5 in the section **Migration Path to migrate from 1.6/1.7 to 2.0**.
2. Register the plug-in to the same vCenters that you had registered earlier in the older plug-in.
3. Proceed with step 6 through step 9 in the section **Migration Path to migrate from 1.6/1.7 to 2.0** to complete the migration.

2

Understanding How to Configure or Edit the OpenManage Integration for VMware vCenter

After you complete the basic installation of the OpenManage Integration for VMware vCenter, the Initial Configuration Wizard is displayed when you click on the Dell Icon. Use the Initial Configuration Wizard to configure the Settings on first launch. For subsequent instances use the **Settings** page. Also, from the Initial Configuration Wizard you can edit the settings of warranty, inventory, events and alarms. Although using the Initial Configuration Wizard is the most common method used, you can also accomplish this task through the appliance's **OpenManage Integration** → **Manage** → **Settings** page in the OpenManage Integration for VMware vCenter. For more information on the Initial Configuration Wizard, see, **OpenManage Integration for VMWare vCenter User Guide.**

Configuration Tasks Using the Configuration Wizard

The Initial Configuration Wizard can be used to configure the following for one vCenter or for all registered vCenters:

1. vCenter Selection
2. Creating A New Connection Profile
3. Scheduling Inventory Jobs
4. Scheduling a Warranty Jobs
5. Configuring Events And Alarms

NOTE: You can also launch the Initial Configuration Wizard using the link **Start Initial Configuration Wizard** under **Basic Tasks** in the **Getting Started** page.

Configuration Wizard Welcome Page

After you install the OpenManage Integration for VMware vCenter, it must be configured.

1. In the **vSphere Web Client**, click on **Home**, and then **OpenManage Integration** Icon
2. The first time you click on the **OpenManage Integration** icon, it opens the **Configuration Wizard**. You can also access this wizard on the **OpenManage Integration** → **Getting Started** → **Start Initial Configuration Wizard** page.

vCenter Selection

The vCenter selection page allows you to select a specific vCenter to configure settings for, or allows you to select all vCenters to configure them.

1. In the **Initial Configuration Wizard**, click on **Next** in the **Welcome** screen.
2. Select one vCenter or all vCenters from the **vCenters** drop-down list. Select an individual vCenter for those not configured yet or if you have added a new vCenter to your environment. The vCenter selection page allows you to select one or more vCenters to configure settings
3. Click **Next** to proceed to the Connection Profile description page.

Creating A New Connection Profile using the Initial Configuration Wizard

A connection profile stores the credentials that the virtual appliance uses to communicate with Dell servers. Each Dell server must be associated with a connection profile to be managed by the OpenManage Integration for VMware vCenter. You may assign multiple servers to a single connection profile. Creating the Connection Profile is similar between the Configuration Wizard and from the OpenManage Integration for VMware vCenter, Settings option.

Prior to using the Active Directory credentials with a connection profile, the Active Directory user account must exist in Active Directory and this account must already be enabled in iDRAC. This wizard is not for creating Active Directory accounts or enabling Active Directory on iDRAC.

NOTE: You are not allowed to create a connection profile if the number of hosts added exceeds the license limit for Creating a Connection Profile

To create a new connection profile using the wizard:

1. From the **Connection Profile Description** page, Click **Next** to proceed.
2. In the **Name and Credentials** page, enter the **Connection Profile Name** and an optional **Connection Profile Description**
3. In the **Name and Credentials** page, under Credentials, do one of the following:

   NOTE: The iDRAC account requires administrative privileges for updating firmware, applying hardware profiles, and deploying hypervisor.

   – For iDRACs already configured and enabled for Active Directory on which you want to use Active Directory, select the **Use Active Directory** check box; otherwise skip down to configure the iDRAC credentials.

   * In the **Active Directory User Name** text box, type the user name. Type the username in one of these formats: domain\username or username@domain. The user name is limited to 256 characters. Refer to Microsoft Active Directory documentation for user name restrictions.
   * In the **Active Directory Password** text box, type the password. The password is limited to 127 characters.
   * In the **Verify Password** text box, type the password again.
   * In the Certificate Check box, select one of the following:

     • To download and store the iDRAC certificate and validate it during all future connections, select **Enabled** .

     • To perform no check and not store the certificate, do not select the **Enable Certificate Check** check box.

     • For iDRACs already configured and enabled for Active Directory on which you want to use Active Directory, select the **Use Active Directory** check box; otherwise skip down to configure the iDRAC credentials.

   – To configure iDRAC credentials without Active Directory, do the following:

   * In the **User Name** text box, type the user name. The user name is limited to 16 characters. Refer to the iDRAC documentation for information about user name restrictions for your version of iDRAC.

     NOTE: The local iDRAC account requires administrative privileges for updating firmware, applying hardware profiles, and deploying hypervisor.
   * In the **Password** text box type the password. The password is limited to 20 characters.

* In the **Verify Password** text box, type the password again.
* In the Certificate Check box, select one of the following:
    - To download and store the iDRAC certificate and validate it during all future connections, select **Enabled**.
    - To perform no check and not store the iDRAC certificate, do not select the **Enable Certificate Check** check box.

4. In the Host Root area, do one of the following:
   – For hosts already configured and enabled for Active Directory on which you want to use Active Directory, select the **Use Active Directory** check box; otherwise skip down to configure your Host Credentials.
     * In the **Active Directory User Name** text box, type the user name. Type the username in one of these formats: domain\username or username@domain. The user name is limited to 256 characters. Refer to Microsoft Active Directory documentation for user name restrictions.
     * In the **Active Directory Password** text box, type the password. The password is limited to 127 characters.
     * In the **Verify Password** text box, type the password again.
     * In the Certificate Check box, select one of the following:
       - To download and store the Host certificate and validate it during all future connections, select **Enabled**.
       - To perform no check and not store the Host certificate, select **Disabled**.
   – To configure Host Credentials without Active Directory, do the following:
     * In the **User Name** text box, the user name is root. This is the default username and you cannot change the username. but, if the Activate directory is set, you can choose any Active directory user not just root.
     * In the **Password** text box type the password. The password is limited to 127 characters.

       NOTE: The OMSA credentials are the same credentials used for ESX and ESXi hosts.
     * In the **Verify Password** text box, type the password again.
     * In the **Certificate Check** check box, select one of the following:
       - To download and store the Host certificate and validate it during all future connections, select **Enabled** .
       - To perform no check and not store the Host certificate, do not select the **Enable Certificate Check** check box.
5. Click **Next**.
6. In the **Associated Hosts** page, select the hosts for the connection profile and click **OK**.
7. To test the connection profile, select one or more hosts and select the **Test Connection** button. This step is optional. This is used to check whether the Host and iDRAC credentials are correct or not.
8. To complete the profile, click **Next**. For servers that do not have either an iDRAC Express or Enterprise card, the iDRAC test connection result states Not Applicable for this system.

Scheduling Inventory Jobs [Wizard]

The inventory schedule configuration is similar between the Configuration Wizard and from the OpenManage Integration under Manage section, Settings option.

NOTE: To make sure that the OpenManage Integration for VMware vCenter continues to display updated information, it is recommended that you schedule a periodic inventory job. The inventory job consumes minimal resources and will not degrade host performance.

To schedule an inventory job:

1. In the **Configuration Wizard**, in the **Inventory Schedule** window, do one of the following:
   - The **Enable Inventory Data Retrieval** check box is selected by default to enable you to schedule the inventory.
2. Under **Inventory Data Retrieval Schedule**, do the following:
   a) Select the check box next to each day of the week that you want to run the inventory. By default, **all the days** are selected.
   b) In the text box, enter the time in HH:MM format.
   The time you enter is your local time. Calculate the time difference you need to run the inventory collection at the proper time.
3. To apply the changes and continue, click **Next** to proceed with the warranty schedule settings.

Running A Warranty Retrieval Job [Wizard]

The warranty retrieval job configuration is similar between the wizard and from the Dell OpenManage Integration for VMware vCenter, Settings option. In addition, you can run the Warranty Retrieval Job now, from Job Queue. Scheduled jobs would be listed in the Job queue.

To run a warranty retrieval job:

1. In the **Configuration Wizard**, in the **Warranty Schedule** window, do one of the following:
   - Select the **Enable Warranty Data Retrieval** check box to enable you to schedule the warranty.
2. Under **Warranty Data Retrieval Schedule**, do the following:
   a) Select the check box next to each day of the week that you want to run the warranty.
   b) In the text box, enter the time in HH:MM format.
   The time you enter is your local time. Calculate the time difference you need to run the warranty collection at the proper time.
3. To apply the changes and continue, click **Next** to proceed with the warranty schedule settings.

Configuring Events And Alarms [Wizard]

Configure events and alarms using the Configuration Wizard or from the Dell OpenManage Integration for VMware vCenter, Settings option for Events and Alarms.

NOTE: On hosts prior to Dell PowerEdge 12th generation servers, this feature requires that the virtual appliance IP address is configured in the trap destination list in OMSA to display host events in vCenter.

To configure events and alarms:

1. In the **Initial Configuration Wizard**, under **Event Posting Levels**, select one of the following:
   - Do not post any events - Block hardware events.
   - Post All Events - Post all hardware events.
   - Post only Critical and Warning Events - Post only critical or warning level hardware events.

- Post only Virtualization-Related Critical and Warning Events - Post only virtualization-related critical and warning events; this is the default event posting level.

2. To enable all hardware alarms and events, select the **Enable Alarms for Dell Hosts** check box.

   NOTE: Dell hosts that have alarms enabled respond to critical events by entering maintenance mode.

3. A dialog box **Enabling Dell Alarm Warning** is displayed, click **Continue** to accept the change, or click **Cancel**. You should click on **Continue** for the clusters displayed when the DRS is not enabled.

   NOTE: This step is only seen if **Enable Alarms For Dell Hosts** is selected.

4. To continue the wizard, click **Apply**.